

Barley Varieties for Montana, USA

Last updated: July 14, 2003

Montana farmers seeded 1.2 million acres of barley in 2003, unchanged from last year. Some 58 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the tenth consecutive year.

Malting Varieties

Harrington remained the top variety planted in the state for the tenth year in a row. It was seeded on 551.9 thousand acres or 46.0 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

B 1202 maintained the second place malting variety position for the eighth consecutive year with 57.1 thousand acres or 4.8 percent of the barley seeded. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald and stripe rust.

Moravian 37 is ranked third among malting barley varieties for the third year in a row with 44.9 thousand acres, or 3.7 percent of the state's acreage. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

Merit rounds out the top four malting varieties again in 2003, with 43.8 thousand acres, or 3.7 percent of seeded acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2003 for use in Montana.

Forage Varieties

Haybet remained the most popular forage barley for the fourth year in a row, with 123.1 thousand acres seeded, which accounted for 10.3 percent of the total barley acres seeded

in Montana for 2003. Haybet, as the name implies, is used primarily for hay in Montana. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

Westford was the second most popular forage barley, with 28.5 thousand acres or 2.4 percent of the state-wide barley acres seeded in 2003. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

Feed Varieties

Baronesse was the most popular feed barley again in 2003. It represents 4.2 percent of the total acreage or 50.4 thousand acres for feed barley seeded in Montana for 2003. This is up from the 46.3 thousand acres seeded last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

Gallatin replaced its cousin Hector this year as the second most popular feed barley grown. Statewide, 35.7 thousand acres were seeded, which is 3.0 percent of all barley acreage. Gallatin was developed from the cross of Summit and Hector cooperatively by ARS, USDA, and the Montana and Idaho Agricultural Experiment stations. It is a two-rowed, rough-awned, spring barley.

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2003 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.0	6.7	375.6	64.2	34.8	22.0	89.1	37.9	30.8	59.2	15.1	16.8	4.5	9.0	551.9	46.0
Haybet	4.8	16.1	22.8	3.9	39.3	24.9	22.6	9.6	4.1	7.8	6.6	7.3	22.9	45.8	123.1	10.3
B 1202*	0.5	1.7	34.5	5.9	0.0	0.0	7.3	3.1	0.0	0.0	14.8	16.4	0.0	0.0	57.1	4.8
Baronesse	3.9	13.1	16.4	2.8	6.8	4.3	16.2	6.9	4.3	8.3	0.9	1.0	1.9	3.7	50.4	4.2
Moravian	0.0	0.0	24.6	4.2	1.9	1.2	0.0	0.0	0.0	0.0	17.6	19.6	0.8	1.6	44.9	3.7
37	0.0	0.0	34.5	5.9	0.0	0.0	8.0	3.4	0.4	0.7	0.9	1.0	0.0	0.0	43.8	3.7
Merit*	4.7	15.7	14.6	2.5	0.0	0.0	10.8	4.6	1.5	2.8	3.0	3.3	1.1	2.1	35.7	3.0
Gallatin	1.3	4.2	2.3	0.4	3.2	2.0	15.7	6.7	1.7	3.2	3.4	3.8	0.9	1.8	28.5	2.4
Westford	0.0	0.0	9.9	1.7	4.3	2.7	7.3	3.1	0.0	0.0	0.8	0.9	3.2	6.4	25.5	2.1
Bowman	0.0	0.0	2.3	0.4	3.6	2.3	9.9	4.2	0.3	0.5	2.6	2.9	3.8	7.6	22.5	1.9
Hector	1.5	5.0	2.3	0.4	7.0	4.4	4.2	1.8	1.6	3.0	2.7	3.0	2.5	4.9	21.8	1.8
Horsford	2.0	6.8	4.7	0.8	8.7	5.5	4.0	1.7	0.0	0.0	0.0	0.0	1.6	3.1	21.0	1.8
Lewis	0.0	0.0	1.8	0.3	0.0	0.0	10.8	4.6	0.6	1.1	3.2	3.5	0.0	0.0	16.4	1.4
Piroline	0.0	0.0	0.0	0.0	12.3	7.8	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	14.2	1.2
Robust*	0.0	0.0	2.3	0.4	9.3	5.9	0.7	0.3	0.0	0.0	0.0	0.0	0.9	1.8	13.2	1.1
Stark	0.0	0.0	2.3	0.4	5.7	3.6	2.8	1.2	0.0	0.0	0.0	0.0	1.1	2.1	11.9	1.0
Legacy*	0.4	1.4	6.4	1.1	0.0	0.0	3.1	1.3	0.0	0.0	1.2	1.3	0.0	0.0	11.1	0.9
Westbred	1.8	6.1	3.5	0.6	3.3	2.1	1.4	0.6	0.0	0.0	0.0	0.0	1.0	1.9	11.0	0.9

Xena	0.0	0.0	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.6
Valier	0.1	0.3	0.0	0.0	0.8	0.5	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.5
Metcalf	0.0	0.0	0.0	0.0	4.3	2.7	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	4.5	0.4
Chinook	7.0	22.8	16.6	3.0	12.7	8.0	13.6	5.8	6.7	13.4	17.0	19.0	3.8	8.0	77.4	6.5
Excel*	30.0	100.0	585.0	100.0	158.0	100.0	235.0	100.0	52.0	100.0	90.0	100.0	50.0	100.0	1,200.0	100.0
Other & Unknown																
All Varieties																

1/ Columns may not sum to all varieties due to rounding. *Variety recommended by the American Malting Barley Association for planting in Montana in 2003.

Barley: Percent of Total Seeded Acreage 1997-2003 & Seeded Acreage 2002-2003 1/									
Variety	Percent of Total							Seeded Acres (000)	
	1997	1998	1999	2000	2001	2002 2/	2003	2002 2/	2003
Harrington*	33.4	42.1	49.6	49.9	45.7	47.6	46.0	571.6	551.9
Haybet	2.1	3.0	4.5	6.5	10.2	10.5	10.3	125.7	123.1
B 1202*	5.1	4.7	5.2	5.4	5.6	5.6	4.8	66.7	57.1
Baronesse	15.6	12.1	7.6	6.2	5.0	3.9	4.2	46.3	50.4
Moravian 37	--	--	0.1	1.5	3.8	4.3	3.7	52.0	44.9
Merit*	0.0	0.3	1.2	1.6	1.1	2.6	3.7	31.1	43.8
Gallatin	5.8	4.6	4.0	2.2	3.3	1.9	3.0	22.2	35.7
Westford	--	--	0.1	1.2	2.7	3.2	2.4	38.3	28.5
Bowman	4.7	3.1	2.7	2.8	2.1	3.0	2.1	35.8	25.5
Hector	8.8	6.8	4.9	3.7	2.7	3.1	1.9	37.4	22.5
Horsford	1.7	2.1	1.7	2.4	1.3	1.6	1.8	19.7	21.8
Lewis	1.5	2.1	2.3	1.5	1.5	1.6	1.8	18.7	21.0
Piroline	3.4	2.2	1.9	1.1	1.2	1.2	1.4	14.1	16.4
Robust*	--	--	--	0.2	0.7	0.4	1.2	4.9	14.2
Stark	0.8	0.9	1.9	0.9	0.8	1.1	1.1	13.5	13.2
Legacy*	--	--	--	--	--	0.6	1.0	6.9	11.9
Westbred Xena	--	--	--	--	--	--	0.9	--	11.1
Valier	--	--	--	0.1	0.6	1.1	0.9	13.4	11.0
Metcalf	--	--	--	--	--	--	0.6	--	7.6
Chinook	--	--	--	--	--	0.5	0.5	5.5	6.5
Excel*	--	--	--	--	--	--	0.4	--	4.5
Other & Unknown	17.1	16.0	12.3	12.8	11.7	6.2	6.5	76.2	77.4
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,200.0	1,200.0

1/ Columns may not sum to all varieties due to rounding. 2/ Revised.
*Variety recommended by the American Malting Barley Association for planting in Montana in 2003.

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2002 Revised 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington	3.0	10.7	396.9	66.7	37.7	27.3	85.8	35.9	29.8	56.2	16.0	16.8	2.4	4.6	571.6	47.6
*	3.1	11.1	29.8	5.0	29.4	21.3	25.8	10.8	2.7	5.0	13.4	14.1	21.5	41.3	125.7	10.5
Haybet	0.0	0.0	37.5	6.3	0.8	0.6	12.2	5.1	0.0	0.0	16.2	17.1	0.0	0.0	66.7	5.6
B 1202 *	0.0	0.0	28.0	4.7	3.0	2.2	0.0	0.0	0.0	0.0	20.4	21.5	0.6	1.1	52.0	4.3
Moravian	4.2	14.9	15.5	2.6	0.3	0.2	20.6	8.6	4.0	7.6	1.2	1.3	0.5	0.9	46.3	3.9
37	5.5	19.6	1.8	0.3	2.5	1.8	15.5	6.5	6.5	12.2	3.3	3.5	3.2	6.1	38.3	3.2
Baronesse	0.0	0.0	0.0	0.0	6.6	4.8	20.6	8.6	0.0	0.0	2.0	2.1	8.2	15.8	37.4	3.1
Westford	0.0	0.0	19.0	3.2	10.9	7.9	1.2	0.5	0.0	0.0	1.2	1.3	3.5	6.7	35.8	3.0

Hector	0.0	0.0	23.2	3.9	0.0	0.0	3.8	1.6	0.3	0.6	3.8	4.0	0.0	0.0	31.1	2.6
Bowman	0.5	1.8	6.0	1.0	4.1	3.0	7.2	3.0	1.7	3.2	1.1	1.2	1.6	3.1	22.2	1.9
Merit *	0.0	0.0	7.1	1.2	1.2	0.9	5.3	2.2	1.4	2.7	4.3	4.5	0.4	0.7	19.7	1.6
Gallatin	0.0	0.0	5.4	0.9	7.3	5.3	4.1	1.7	0.3	0.5	0.0	0.0	1.6	3.1	18.7	1.6
Horsford	0.0	0.0	6.5	1.1	0.0	0.0	6.7	2.8	0.0	0.0	0.4	0.4	0.5	0.9	14.1	1.2
Lewis	0.0	0.0	6.0	1.0	7.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	13.5	1.1
Piroline	2.2	8.0	4.2	0.7	3.9	2.8	2.9	1.2	0.0	0.0	0.2	0.2	0.0	0.0	13.4	1.1
Stark	0.0	0.0	0.0	0.0	0.0	0.0	12.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	12.7	1.1
Valier	7.0	25.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	8.3	0.7
B 2601	0.0	0.0	3.0	0.5	1.8	1.3	1.2	0.5	0.0	0.0	0.0	0.0	0.9	1.8	6.9	0.6
Menuet	0.0	0.0	0.0	0.0	0.7	0.5	4.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.5
Legacy *	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	0.0	0.0	3.8	4.0	0.0	0.0	5.0	0.4
Chinook	0.0	0.0	0.0	0.0	4.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	4.9	0.4
Clark	2.5	8.8	4.5	0.8	15.7	11.3	7.4	3.2	6.3	12.0	7.7	8.0	6.1	12.0	50.2	4.2
Robust	28.0	100.0	595.0	100.0	138.0	100.0	239.0	100.0	53.0	100.0	95.0	100.0	52.0	100.0	1,200.0	100.0
Other & Unknown																
All Varieties																

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